

CLAIMS

1. (Previously Presented) A method, comprising:
identifying a component included in a cable modem, wherein the component is a first tuner selected from a plurality of tuners included in the cable modem;
obtaining parameter information including downstream power monitoring characteristics, band crossover frequency, tuner control bytes, and upstream power reporting characteristics for the first tuner from a tuner characteristic table maintained in nonvolatile memory;
configuring the operating system running on the cable modem to operate the component and report power characteristics to an upstream device, wherein the upstream device is a cable modem head end;
obtaining parameter information including downstream power monitoring characteristics, band crossover frequency, tuner control bytes, and upstream power reporting characteristics for a second tuner selected from a plurality of tuners included in the cable modem;
configuring the operating system to operate the second tuner and report power characteristics from the cable modem to the upstream device.
2. (Previously Presented) The method of claim 1, wherein the operating system is a cable modem operating system.
3. (Canceled)
4. (Original) The method of claim 3, wherein operating the component comprises varying RF transmission power.
5. (Original) The method of claim 3, wherein parameter information comprises IF output information.
6. (Original) The method of claim 3, wherein parameter information comprises band crossover frequency information.
7. (Original) The method of claim 3, wherein parameter information comprises IF AGC Gain Threshold information.
8. (Original) The method of claim 3, wherein parameter information comprises RF AGC Gain Threshold information.
9. (Original) The method of claim 3, wherein parameter information comprises component address information.
10. (Previously Presented) A system, comprising:
means for identifying a component included in a cable modem, wherein the component is a first tuner selected from a plurality of tuners included in the cable modem;

means for obtaining parameter information including downstream power monitoring characteristics, band crossover frequency, tuner control bytes, and upstream power reporting characteristics for the first tuner from a tuner characteristic table maintained in nonvolatile memory;

means for configuring the operating system running on the cable modem to operate the component and report power characteristics to an upstream device, wherein the upstream device is a cable modem head end;

means for obtaining parameter information including downstream power monitoring characteristics, band crossover frequency, tuner control bytes, and upstream power reporting characteristics for a second tuner selected from a plurality of tuners included in the cable modem;

means for configuring the operating system to operate the second tuner and report power characteristics from the cable modem to the upstream device.

11. (Original) The system of claim 10, wherein the component is a cable modem tuner.

12. (Original) The system of claim 11, wherein operating the component comprises varying RF transmission power.

13. (Original) The system of claim 11, wherein parameter information comprises IF output information.

14. (Original) The system of claim 11, wherein parameter information comprises band crossover frequency information.

15. (Original) The system of claim 11, wherein parameter information comprises IF AGC Gain Threshold information.

16. (Original) The system of claim 11, wherein parameter information comprises RF AGC Gain Threshold information.

17. (Original) The system of claim 11, wherein parameter information comprises component address information.

18. (Currently Amended) A non-transitory ~~tangible~~ computer readable storage medium having computer code embodied therein, the non-transitory computer readable storage medium comprising:

computer code for identifying a component included in a cable modem, wherein the component is a first tuner selected from a plurality of tuners included in the cable modem;

computer code for obtaining parameter information including downstream power monitoring characteristics, band crossover frequency, tuner control bytes, and upstream power

reporting characteristics for the first tuner from a tuner characteristic table maintained in nonvolatile memory;

computer code for configuring the operating system running on the cable modem to operate the component and report power characteristics to an upstream device, wherein the upstream device is a cable modem head end;

computer code for obtaining parameter information including downstream power monitoring characteristics, band crossover frequency, tuner control bytes, and upstream power reporting characteristics for a second tuner selected from a plurality of tuners included in the cable modem;

computer code for configuring the operating system to operate the second tuner and report power characteristics from the cable modem to the upstream device.

19. (Currently Amended) The non-transitory computer readable storage medium of claim 18, wherein the operating system is a cable modem operating system.

20. (Currently Amended) The non-transitory computer readable storage medium of claim 19, wherein the component is a tuner.

21. (Currently Amended) The non-transitory computer readable storage medium of claim 20, wherein operating the component comprises varying RF transmission power.

22. (Currently Amended) The non-transitory computer readable storage medium of claim 20, wherein parameter information comprises IF output information.

23. (Currently Amended) The non-transitory computer readable storage medium of claim 20, wherein parameter information comprises band crossover frequency information.

24. (Currently Amended) The non-transitory computer readable storage medium of claim 20, wherein parameter information comprises IF AGC Gain Threshold information.

25. (Currently Amended) The non-transitory computer readable storage medium of claim 20, wherein parameter information comprises RF AGC Gain Threshold information.

26. (Currently Amended) The non-transitory computer readable storage medium of claim 20, wherein parameter information comprises component address information.

27-29. (Canceled)

30. (Previously Presented) A cable modem comprising:

a plurality of tuners;

a nonvolatile memory operable to store power characteristics including power monitoring characteristics, band crossover frequency, tuner control bytes, and upstream power reporting characteristics included in a tuner characteristic table associated with the tuner;

a volatile memory operable to temporarily maintain power characteristics;

a processor operable to run a cable modem operating system, wherein the cable modem operating system is configured to select a first tuner from the plurality of tuners included in the cable modem and use the power characteristics to drive the first tuner to transmit at a desired power level, wherein the operating system accesses nonvolatile memory to obtain power characteristics to drive a second tuner included in the cable modem to operate in a different frequency band.

31. (Previously Presented) The cable modem of claim 30, wherein the tuner characteristic table is configured to hold a version number, downstream tuner characteristics, IF frequency, band crossover frequency, IF AGC gain threshold, RF AGC gain threshold, tuner address, tuner control bytes, downstream power monitoring characteristics, and upstream power reporting characteristics for the plurality of tuners included in the cable modem.

32. (Previously Presented) The cable modem of claim 31, wherein the first tuner is a cable modem RF tuner.

33-40. (Canceled)